

SYSTEM FOR MAINTAINING AN ACTIVE DATA LINK LAYER FOR ISDN CALL PROCESSING DURING A SOFTWARE RESET OPERATION

Abstract

The data link layer maintenance system executes in the Q.921 protocol
5 server of the serving ISDN Access Node and maintains the data link layer active in
the ISDN-based Terminal Equipment and the Q.921 protocol server of the serving
ISDN Access Node during the execution of a software reset process. This is
accomplished by the Q.921 protocol server of the serving ISDN Access Node
software storing the data communications connection data in a persistent table that
10 survives the software reset operation. A predetermined set of control signals is
then exchanged between the Q.921 protocol server of the serving ISDN Access
Node and the ISDN-based Terminal Equipment in response to the initiation of a
software reset process to execute standard signaling processes of the LAP-D
protocol to force the Terminal Equipment and the Q.921 protocol server of the
15 serving ISDN Access Node into a predetermined stable state.